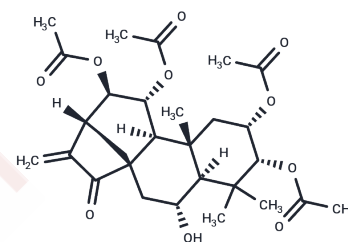


## Isoforretin A

## Chemical Properties

CAS No. :	2231757-68-7
Formula:	C <sub>28</sub> H <sub>38</sub> O <sub>10</sub>
Molecular Weight:	534.6
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Isoforretin A is a potent inhibitor of thioredoxin-1 (Trx1) with significant biological activity, inducing anti-tumor effects mediated by reactive oxygen species (ROS). The compound inhibits Trx1 activity by covalently binding to the activation site residues Cys32/Cys35, which triggers ROS accumulation, leading to DNA damage and apoptosis (Apoptosis) in cancer cells. Additionally, Isoforretin A has demonstrated the ability to suppress the growth of HepG2 tumors in a mouse hepatic cell carcinoma xenograft model.
Targets(IC50)	Apoptosis, Reactive Oxygen Species

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8706 mL	9.3528 mL	18.7056 mL
5 mM	0.3741 mL	1.8706 mL	3.7411 mL
10 mM	0.1871 mL	0.9353 mL	1.8706 mL
50 mM	0.0374 mL	0.1871 mL	0.3741 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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